USSR / Microbiology. Microbes Pathogenic to Man and Animals. Bacteria of the In-

F

testinal Group.

Abs Jour

: Ref. Zhur - Biol., No. 21, 1958, No 95151

Author

Ignat'yeva. A. A.

Inst

: Voronezh Medical Institute.

Title

: Experimental Study of Antibiotic Vaccines

From a Typhoid Carrier.

Orig Pub

: Avtoref. diss. kand. med. n., Voronezhsk.

med. in-t, Voronezh, 1958.

Abstract

: No abstract

Card 1/1

IGNATIVEVA, A.M. Minimum design expenditures on power transmission lines with various carrying cannettics, longths, and current types. Izv.AN Kazakh. SGR. tSer. tokh.i.khim.nauki 130 (1311) 131 (1

agricultural machinery factories) Moskva, Mashgis, 1955.

CONTROL OF THE PROPERTY OF THE

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| IGNAT'YEVA. A | K | | | |
|---------------|---------------|-----------------|---------------|---------------------|
| | | | | |
| Operativnoye | planirovaniye | proizvodstva ze | savodskh seli | skokhosyaistvennogo |

221 p. tables.

"Ferechen' ispol'sovennoy literatury i istochnikov": p. (219)

At head of title (Russia) Ministerstvo Mashinostroyeniya.

IGNAT'YEVA, A. M.; LOYTER, E. E.

Minimum calculated cost of electric power transmission lines with different carrying capacity and length. Isv. AN Kazakh. SSR. Ser. energ. no.2:11-18 62. (MIRA 16:1)

。 1987年,1987年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,19

(Electric lines—Overhead)
(Electric power distribution)

ALEKSEYEV, A.N.; IGNAT'YEVA, A.P., laborant

Toxicity of some organic phosphoric insecticides for the larvae of blood-sucking blackflies. Med. paraz. i paraz. bol. 32 no.5: 546-548 S-0'63 (MIRA 16:12)

1. Iz TSentral'nogo nauchno-issledovatel'skogo dezinfektsionno-go instituta (dir. - prof. V.I. Vashkov) Ministerstva zdravo-okhraneniya SSSR.

DALIN. Valeriy Nikitich, kandidat tekhnicheskikh nauk; IANATITATA, A.G., isdatel'skiy redaktor; PURHLIKOVA, N.A., tekhnicheskiy redaktor.

[Investigating heating systems of airtight cabins of passenger planes]. Issledovanie sistem panel'nogo obograva germeticheskikh kabin passanhrakikh samoletov. Moskva, Gos. izd-vo obor. promyshl., 1957. 37 p. (Moscow. Aviatsionnyi institut. Trudy, mo.80).

(Airplanes-Heating and ventillation)

CHERNYAYEV, M.P.; IGNAT'YEVA, A.V. redaktor; SHIKIN, S.T., tekhnicheskiy redaktor

[Collection of problems on synthetic geometry; manual for pedagogical institutes] Shornik sadach po sinteticheskoi geometrii; posobie dlia pedagogicheskikh institutov. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1954. 72 p. (MIRA 8:4) (Geometry--Problems, exercises, etc.)

IGNAT'YEVA, A.V.

IGNAT'YEVA, A.V. -- "On a Specific Presentation of the Functions of Many Variables."

(Dissertations For Degrees In Science And Engineering Defended
At USSR Higher Educational Institutions) (29) Moscow Oblast'
Pedagogical Inst, Min of Education RSFSR, Moscow, 1955

SO: Knizhnaya Letopis' No 29, 16 July 1955

* For the Degree of Candidate in Physicomathematical Sciences

KISELEV, A.P.; IGHAT'YEVA, A.V., redaktor; MIRONTSEVA, M.I., tekhnicheskiy redaktor.

[Algebra; textbook for classes 6-8 of the seven-year and secondary school] Algebra; uchebnik dlia 6-8 klassov semiletnei i srednei shkoly. Izd. 29-e Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR. Pt. 1. 1955. 111 p. (MIRA 8:7) (Algebra)

STAL'KOV, Grigoriy Alekseyevich; IGNAT'YEVA, A.V., redaktor; DZHATIYKV, S.G., tekhnicheskiy redaktor;

[Mental arithmetic] Ustnyi schet; posobie dlia uchashchikhsia srednei shkoly. Moskva, Gos.uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1955. 126 p. (MIRA 815) (Arithmetic, Mental)

DORF, Potr Yakovlevich; IONAT' YEVA, A.V., redaktor; RYBIN, I.V., tekhnicheskiy redaktor

[Visual aids in mathematics and ways of using them; teacher's manual] Nagliadnye posobita po matematike i metodika ikh prememenia; posobie dlia uchitelei. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1955. 157 p. (MIRA 8:7) (Visual instruction) (Hathematics—Study and teaching)

KISELEV, Andrey Petrovich; IGHAT'YHVA, A.V., redaktor; HAKHOVA, N.H., tekhnicheskiy redaktor

[Algebra; textbook for classes 8-10 of the secondary schools]
Uchebnik dlia 8-10 klassov srednei shkoly. Izd. 32-e. Moskva, Gos.
uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR. Pt.2.
1955. 231 p.
(Algebra)

KUTUZOV, Boris Veniaminovich; IGNATIYEVA, A.V., redaktor; MAKHOVA, N.N., tekhnicheskiy redaktor

[Geometry; a textbook for normal schools] Geometriia; posobie dlia pedagogicheskikh i uchiteliskikh institutov. Izd. 2-e. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1955.

295 p. (MERA 8:7)

TROLOV, Nikolay Andrianovich; IGNAT'YEVA.A.V., redaktor; MAKHOVA,N.N., tekhnicheskiy redaktor

[Differential and integral calculus; textbook for pedagogical institutes] Differentsial nos i integral nos ischislenie; uchebnoe posobie dlia pedagogicheskikh institutov. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1955. 339 p. (MIRA 9:4) (Calculus, Differential) (Calculus, Integral)

GONCHAROV, Vasiliy Leonidovich; IGNAT'YEVA, A.V., redaktor; MAKHOVA, H.N. tekhnicheskiy redaktor.

[Theory of functions of complex variables; textbook for pedagogical institutes.] Teoriia funktsii kompleksnogo peremennogo; uchebnoe posobie dlia pedagogicheskikh institutov. Moskva, Gos.uchegnopedagog.isd-vo Ministerstva prosveshcheniia RSFSR, 1955. 350 p. (Functions of complex variables) (MLRA 8:11)

JUNEAT YELD, A.L

PHASE I BOOK EXPLOITATION

350

Vedrov, V. S., Romanov, G. L., and Surina, V. N.

Samolet kak ob"yekt regulirovaniya; strukturnyye skhemy uravneniy vozmushchennogo dvizheniya samoleta (The Control of Aircraft; Block Diagrams of Equations for Disturbed Motions of an Aircraft) Moscow, Oborongiz, 1957. 42 p. 1,020 copies printed.

Sponsoring Agency: USSR Ministerstvo aviatsionnoy promyshlennosti (Its Trudy, Nr 74)

Ed.: Ignat'yeva, A. V.; Tech Ed.: Lebedeva, L. A.

PURPOSE: Presentation of regults of scientific research.

Card 1/5

The Control of Aircraft (cont.)

350

COVERAGE:

This paper treats the representation of the equations of disturbed motion of an aircraft in terms of block diagrams of closed-loop systems with first- and second-order components, where the input and output signals have a definite physical meaning. The characteristics of the individual components and their variation with aircraft speed and altitude are briefly analyzed. A derivation of the transfer functions in rudder and alleron control is given, and also simplified expressions for the transfer functions in relation to the frequency band, which corresponds to the degeneration of the disturbed motion into simple types. The method of representing the equations of disturbed motion of an aircraft in terms of block diagrams of closed-loop systems permits ready application of the techniques of modern control theory, such as the frequencyresponse method, the theory of feedback loops, blockdiagram analysis, etc., to the analysis of aircraft motion in stability and control problems, and also makes it possible to set up simplified equations of motion as well as transfer functions for control of motion by means of control surfaces. In contrast to existing methods, which

Card 2/5

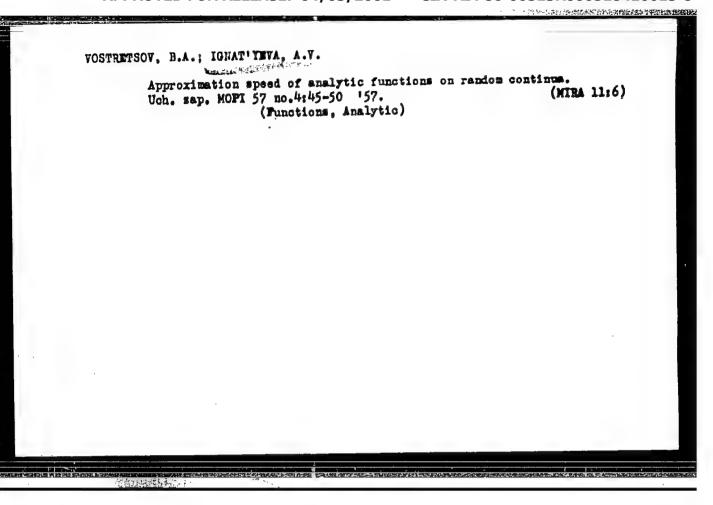
350 The Control of Aircraft (cont.) yield approximate transfer functions for rapid angular motions about the center of gravity, these methods readily permit obtaining approximate expressions for transfer functions for the slow motions associated with displacements of the center of gravity. The report contains 7 tables and 15 figures.
There are 15 bibliographic references, 4 Russian, 5 American,
1 British, 4 French, and 1 Belgian. The authors express their
gratitude for valuable advice to M.A. Tayts, Doctor of Technical
Sciences, and Ye.N. Arson'yev, Engineer. TABLE OF CONTENTS: 1 Summary 1 Introduction 2 Conventional Signs Card 3/5

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8

| Ch. I. 2. 3. | Brief analysis of the characteristics of the elements Transfer functions of control components. Simplification of equations of motion and of transfer functions. Lateral Motion Block diagram for disturbed lateral motion Brief analysis of the characteristics of the elements Transfer functions of centrol components Simplification of equations of motion and of transfer functions | 350 3 6 13 21 21 25 31 |
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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8

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| THORS: | Ignat'yeva, A.V., and Vostretsov, B.A. | SOV/140-58-4-12/30 |
|-------------|---|--|
| ITLE: | The Representation of Functions of Several of Plane Waves and the Solution of the Cabolic Systems (Predstavleniye funktsiy mapomoshch'yu ploskikh voln i resheniye zabolicheskikh sistem) | auchy Problem for Hyper- nogikh peremennykh s |
| PERIODICAL | Izvestiya vysshikh uchebnykh zavedeniy. Pp 100-112 (USSR) | Matematika, 1958, Nr 4, |
| ABSTRACT | The paper contains a detailed, rather conform the results announced in [Ref 1,2]. There are 5 references, 4 of which are S | |
| ASSOCIATION | : Moskovskiy aviatsionnyy institut (Moscow | Aviation Institute) |
| SUBMITTED: | February 17, 1958 | |
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| Card 1/1 | | |

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8"

The state of the s

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16.3500 16.2600 AUTHOR:

Ignatiyeva, A. V.

On a special representation of a function of several TITLE:

variables

Referativnyy zhurnal, Matematika, no. 1, 1962, 50, PERIODICAL:

abstract 1B238. ("Uch. zap. MGU", 1959, vyp. 186,

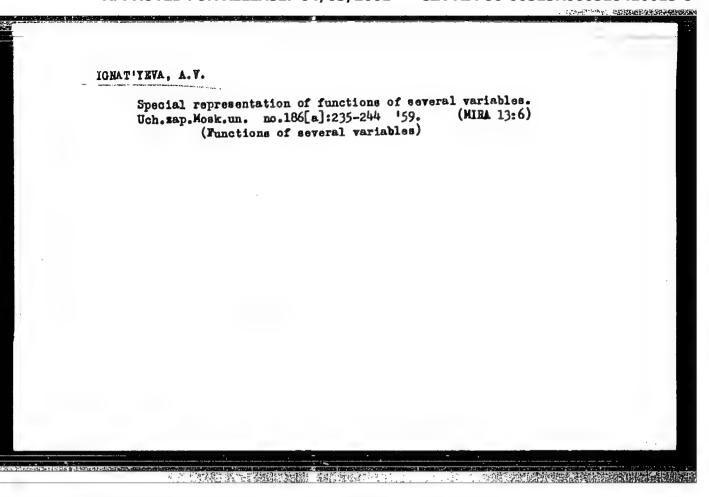
An elementary method for the representation of a function ጥዚሂጥል

 $f(x_1, \ldots, x_n)$ in the form

 $\int_{p_1^2 + \dots + p_n^2 = 1} \varphi_N (x_1^{p_1} + \dots + x_n^{p_n}) d\sigma'$ $f(x_1,...,x_n) = \lim_{N\to\infty}$

is given; the method is applicable under relatively small suppositions on the function f. Further on the author brings an example for the application of this representation to the solution of the Cauchy problem for a linear hyperbolic system of differential equations with constant coefficients.

Abstracter's note: Complete translation. Card 1/1



OCHAN, Yuriy Semenovich; SHNEYDER, Vladimir Yevgen'yevich; IGNAT'YEVA,

A.V., red.; SMIRNOVA, M.I., tekhn.red.

[Mathematical analysis; textbook for teachers' institutes] Matematicheskii analiz; uchebmoe posobie dlia pedagogicheskikh institutov.

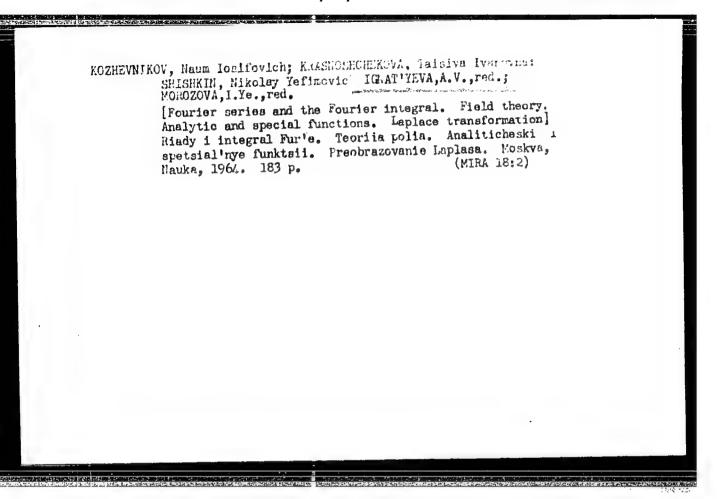
Moskva, Gos.uchebmo-pedagog.izd-vo M-va prosv.RSFSR, 1961. 879 p.

(MIRA 14:6)

(Mathematical analysis)

IGNAT'YEVA, Alla Venediktovna; KRASNOSHCHEKOVA, Taisiya Ivanovna; SMIRNOV, Viktor Fedorovich; ROMANOVSKIY, P.I., prof., red.; TAL'SKIY, D.A., red.

[Course in higher mathematics] Kurs vysshei matematiki. Moskva, Vysshaia shkola, 1964. 682 p. (MIRA 18:1)



"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000518410013-8

L 33334-66 EWT(m)/EWP(j) UR/0413/66/000/012/0036/0036 SOURCE CODE: ACC NR: AP6021776 INVENTOR: Kuznetsov, Ye. V.; Ignat'yeva, E. K.; Kostromina, S. Ya. 13 ORG: none TITLE: Preparative method for nitrogen and phosphorus-containing organotitanium compounds. Class 12, No. 182722 announced by Kazan Chemical Technology Institute im. S. M. Kiroy (Kazanskiy khimiko-tekhnologicheskiy institut)] SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 36 TOPIC TAGS: organotitanium compound, nitrogen containing organotitanium compound, phosphorus containing organotitanium compound, titanium compound ABSTRACT: An Author Certificate has been issued for a preparative method for nitrogen and phosphorus-containing organotitanium compounds. Bis-(2-hydroxyethoxy)bis-(aminoethyl)-titanium is reacted with derivatives of methylphosphonic acid substituted in methyl in a solvent. Hydroxymethylphosphonic acid is used as a derivative of the substituted methylphosphonic acid for preparing new compounds.[BN] SUB CODE: 07/ SUBM DATE: 03May65/ ATD PRESS:5026 547.419.1'258.2.07 1/1 ULR Card

Interaction of acetone cyanohydrin and allyl alcohol with trialkoxystibine. Zhur.ob.khim. 33 no.2:617-622 F '63. (MIRA 16:2) 1. Kazanskiy khimiko-tekhnologicheskiy institut imeni S.M. Kirova. (Lactonitrile) (Allyl alcohol) (Stibine)

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8

| | L 34858-65 EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 RM 8/0286/65/000/003/0025/0025 ACCESSION NR: AP5007159 | |
|-----|---|--|
| , | AUTHOR: Kuznetsov, Ye. V.; Ignat'yeva, E. K.; Meronova, L. Ye. | |
| 1.0 | TITLE: Preparative method for nitrogen- and phosphorus-containing organotitanium compounds. Class 12, No. 167873 | |
| | SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 3, 1965, 25 | |
| | TOPIC TAGS: organotitanium compound, titanium compound | Maria 2 & * * 2 * * * * * 1. * * * * * |
| | ABSTRACT: An Author Certificate has been issued for a preparative method for nitrogen- and phosphorus-containing organotitanium compounds. Di-\$-hydroxyethyl-diethylaminotitanium [sic] is treated with trimethylolphosphine or bis(hydroxy-methyl)phosphonic acid in methanol with heating. | |
| | ASSOCIATION: none | <u>ा । । ।</u> राज्या |
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LEBEDINSKIY, N.F.; OKTYABR'SKIY, P.Ya.; SMIRNOV, D.V.; VINLGRADOV, N.I.;

KUZ'MAK, B.S.; BLYAKHMAN, L.S.; RYASHCHENKO, B.R.; POLOZOV, V.R.;

SHALGIN, G.N.; MARKIN, A.A.; IGNAT'YEVA, E.P.; VOROTILOV, V.A.;

KLYUYEV, A.I., dota., otv.red.; KARPOVA, L.A., red.; YELIZAROVA,

N.A., tekhn. red.

[Hiddent potentials for increasing labor productivity in the national economy] Rezervy rosta proizvoditel nosti truda v narodnom khoziaistve. Leningrad, Izd-vo Leningr. univ., 1962. 223 p. (MIRA 16:2)

1. Leningrad. Universitet.

(Labor productivity)

of pigmentation (i. e., change into cornea) and dedevelopment of the graft involves retention or loss graft is influenced not only by tissue of the eye, USSR/Elology - Restoration of Organs described in this instance deals with transplantsof which had been extirpated. Amphibia, "G. M. Ignat'yeva Upon Transplantation Into the Eye of Tailless USSR/Biology - Restoration of Organs the graft with old skin. tions. It is apparently influenced by contact of pends on the age of the recipient and mech condibut also skin tissue surrounding the eye. Further eye of another tadpole in such a manner that the tion of skin from the back of a tadpole into the into the eye of a larva or adult animal the cornes smphibia develops into a cornea on transplantation V. V. Popov showed that young (larval) skin of could be carried out on rate. Modification of the Histological Structure of Skin "Dok Ak Mauk SSSR" Vol LXXXI, No 4, pp 701-704 ተመነለግ ተያችፖለ_ን (Contd) The series of expts Similar operations Dec 202120 Dec 51 SOZI 20 Z

IGNAT'YEVA, G.M.

Formation of the retina in tadpole from the skin of Triton taeniatus larvae. Doklady Akad. nauk SSSR 82 no.1:167-170 1 Jan 52. (CLML 21:5)

- 1. Presented by Academician A.I. Abrikosov 9 November 1951. 2. Institute of Animal Morphology imeni A.N. Severtsov, Academy of Sciences USSR.

CIA-RDP86-00513R000518410013-8" APPROVED FOR RELEASE: 04/03/2001

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8

2000年,阿州约377年至2日的2016年,2016年,1

GNATYEVA, G.M.

USER/ Medicine - Experimental morphology

Card 1/1

Pub. 22 - 49/50

Authors

Ignatyeva, G. M.

Title

Cornea revivification of tailless amphibians during its partial or complete removal

Pariodical : Dok. AN SSSR 100/1, 187-190, Jan. 1, 1955

Abstract

A new method of cornea revivification during partial or complete removal of the former was tested on several tailless amphibians (frogs), and the results obtained are described. Nine references: 6 USSR, 1 Japanese and 2 German (1915-1952). Illustrations.

Institution : Acad. of Sc., USSR, The A. A. Severtsov Institute of Animal Morphology

Presented by : Academician A. I. Abrikosov, October 23, 1954

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8"

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8

IGNATGEVA. G.M.

USSR/Medicine - Experimental morphology

Card 1/1

Pub. 22 - 49/52

Authora

Ignatyeva, G. M.

Title

Cornea transplantation of adult frogs with larval skin

Periodical

Dok. AN SSSR 100/2, 385-388, Jan 11, 1955

Abstract 1

Experimental data are presented on the tranplantation of adult frog cornea with larval skin. The results obtained from such operations are described. Eight USSR references (1947-1955). Table; Illustrations.

Institution :

Academy of Sciences USSR, The A. N. Severtsov Institute of Animal

Morphology

Presented by :

Academician A. I. Abrikosov, October 23, 1954

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8

IQNATYEVA - q.M.

USSR/ Biology - Embryology

Card 1/1 Pub. 22 - 45/47

Authors & Ignatyeva, C. M.

Title : Formation of a hatching ferment in embryos of sturgeon

Pariodical : Dok. AN SSER 100/6, 1199-1202, Feb 21, 1955

Abstract : The spawn of Black and Azov Sea sturgeon incubated in industrial conditions was investigated to determine the possibility of formation of a hatching fermentation in the embryos of the fish. Results obtained are described. Six references: 5 USER and 1 French (1912-1954). Table.

Institution : Academy of Sciences USSR, The A. N. Severtsov Institute of Animal Morphology

Presented by : Academician 7. A. Engel'gardt, November 30, 1954

USSR / General Biology. Individual Development. Embryonal Development.

B-2

Abs Jour

: Ref Zhur - Biol., No 14, 1958, No 61897

Author

Imnatiyeva, G. M.

Inst

Title

: The Role of Membranes in Sturgeon Embryos for Secreting

Hatching Ferments.

Orig Pub

: Dokl. AN SSSR, 1956, 107, No. 3, 493-496

Abstract

: It was shown that presence of membranes does not constitute a necessary prerequisite for secretion of hatching ferments. For sturgeon and starred sturgeon embryos which were artificially freed of membranes at stages close to the enset of hatching, secreted hatching forments into the water. Existence and activity of ferments were estimated by the fact that durability of egg-indicator (embryos at early development stages) membranes diminished after they spent some time

Card 1/2

Inst. animal Morphology im A. N. Severtaov, AS USSR

B-4

IGNAT YEVA, G.M.

Individual Development

USSR / General Biology.

Abs Jour : Ref Zhur - Biol., No 12, 1958, No 52411

Author

: Ignat'eva, G. M.

Inst

Title

: Some Conditions Affecting Sturgeon Hatching. AS USER

Orig Pub

; Dokl. AN SSSR, 1956, 109, No. 6, 1222-1225

Abstract

: The effect of water novem at (currents), oxygen regimen and embryo mobility on hatching of sturgeon fish (beluga, osetra and sevryugi) was studied. Under laboratory conditions the currents (made by rocking the embryos in flasks) stimulated the production of hatching enzymes and even hatching itself if sufficiently developer embryos were used (at stages 34-35 according to Detlaf a d Ginzburg), and had no effect on embryos at earlier stage of development. Improvement of meration conditions also helped batching. Elimination of mobility of embryos by r protization and wrethene markedly

card 1/2

16

CIA-RDP86-00513R000518

IGNATYEVA, G. M.

ROSKIN, Grigoriy Iosifovich; LEVIESON, L. 3.; IGNAT'IEVA, G.M., red.; PARSADAHOVA, K.G., red.isdatel'stva; GAMZAYEVA, N.S., tekhn.red.

> [The technique of the microscope] Mikroskopicheskaia tekhnika. Isd.3-e. Pod obshchei red.G.I.Rosbina. Moskva, Gos.isd-vo (MIRA 10:12) "Sovetskala nauka," 1957. 466 p. (Microscope- -Technique)

507/20-114-4-63/63

AUTHOR:

Ignat'yeva, G. M.

TITLE:

Morpho-Physiological Studies of the Hatching Gland in Huso huso (L.) (Morfo-fiziologicheskoye issledovaniye zhelezy vylupleniya belugi

Huso huso (L.))

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 114, Nr 4, pp. 908 - 911 (USSR)

ABSTRACT:

It was proved (references 1 - 3) that the secretion of the hatching-enzyme which loosens the solidity of membrane before hatching takes place under the control of a number of conditions which act differently according to the embryo's stage of development. As this enzyme is produced by the hatching gland, it was assumed that the differences of action of the above-mentioned conditions are in connection with the state of development of the hatching gland. Knownection with the entire development and the medification of function of this provisional organ is also of importance in fishery due to its influence upon the duration of hatching. Beside the investigation mentioned in the title the author studied the enzymatic activity of the hatching gland according to Zotin (reference 1). Embryos of the stages 25 - 35 (stages see reference 2), larvae during sporadic and mass hatchings as well as larvae on the

Card 1/4

sov/20-114-4-63/63

. Morpho-Physiological Studies of the Hatching Gland in Huso huso (L.)

1st - 7th day after hatching were fixed, dyed and microscopically studied. The results of the determinations (figure 1) show that the enzyme appears in the gland after the 28th stage. The enzymatic activity increases with the development of the embryo and reaches its maximum in the 35th stage. Then the enzyme is rapidly emptied into the perivitellin-space. The gland produces and accumulates the enzyme for still another 3 days, but this activity decreases and comes to an end on the 6th day after hatching. Certain morphological modifications of the gland correspond to the modification of the enzymatic activity. The structure and development of the gland is described in detail. In the case of larvæ in the stage of sporadic hatching the gland is almost completely free of secretion. Yolk is still contained in it (figure 3 a). Consequently the above--mentioned sec retion must either represent the hatching enzyme itself or must contain it. After hatching the number of accumulations of secretion begins to increase until the 3rd day (figure 3 b), then it decreases, but single accumulations of secretion may even be seen in a 6 days old larva (figure 3 v) in the remainders of the glandular tissue. This tissue is degraded and disintegrates. A comparison of the preparations of the hatching gland from Huso huso and Acipenser stellatus permits the conclusion that the physiological and morphological modifications of the hatching gland

Card 2/4

80V/20-114-4-63/65

Morpho-Physiological Studies of the Hatching Gland in Huso huso (L.)

of the Acipenseridae in contrast to the Teleosti are bound to certain stages of development of the entire embryo. This explains why the embryo of the Acipenseridae under different conditions leave the embryonic membranes in the same stages characteristic of the beginning of hatching. The yolk apparently serves as source of the formation of secretion, as it disappears parallel with the accumulation of secretion. As yolk is abundantly present in the hatching gland, the embryo with a quantity of secretion in the gland necessary for loosening the membrane can attain the time of hatching even under different conditions of existence (above all at varying temperatures of incubation). Thus a formation of secretion in the hatching gland which at first sight seems to be insignificant in reality proves to be a consequence of an adaptation essential for life which makes it possible for the embryos of Acipenseridae to leave the embryonic membranes in time under varying conditions of the surroundings. There are 3 figures, and 7 references, 表意识。 which are Slavic.

Card 3/4

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8

'Morpho-Physiological Studies of the Hatching Gland in Huso huso (L.)

ASSOCIATION: Institute for Animal Morphology, AS USSR, imeni A. N. Severtsov (Institut morfologii zhivotny'.h im. A. N. Severtsova Akademii nauk SSSR)

PRESENTED: February 20, 1957, by I. I. Shmal'gauzen, Academician

SUBMITTED: February 12, 1957

أندان ودارا أواريه إجاريست فالملب

USSR/General Biology. Individual Development. Embryonic Development.

 \mathbf{B}

Abs Jour: Ref Zhur-Biol., No 17, 1958, 76274.

Author :

tions /-

: Ignat eva, G.M.

★ Inst Title

: Morpho-Physiological Investigation of the Hatching Gland of the Starred Sturgeon at Various Incubation Temperatures.

Oric Pub: Dokl. AN SSR, 1957, 114, No 5, 1132-1135.

Abstract: No essential differences were found in the norphology of the hatching gland in the starred sturgeon after development. The activity of the enzyme in the gland varied strongly in different groups; however, differences of activity depending

Card : 1/2 * [INSTITUT MORFOLOGII ZHIVOTAKH IMENI A. N. SEVERTSOVA AKADEMII NAUK SSSR.

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8

B

USSR/General Biology. Individual Development. Embryonic Development.

Abs Jour: Ref Zhur-Diol., No 17, 1958, 76274.

on the temperature were not noted. Larvae in stages of a single broad divided into different groups possessed similar structures, but with lower temperatures of incubation, they were bigger.

Card : 2/2

5

IGNAT YEVA, G.M., band.biol.nauk

1. Institut morfologii zhivotnykh AN SSSR. (Sturgeone) (Embryology--Fishes) (Enzymes)

一個 表示對於主義發展 溫計士

Hatching engymes. Usp.sovr.biol. 46 no.3:337-356 N-D '58 (MIRA 11:12)

(ENZYMES)

(EMERYOLOGY)

17(1) AUTHOR:

. Ignat'yeva, G. M.

SOY/20-128-1-57/58

TITLE:

Secretion of the Hatching Ereyme in Explants of the Hatching Gland of Acipenseridae F 37 3

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 1, pp 212-215

(USSR)

ABSTRACT:

The secretion of the hatching enzyme is checked by some external factors mainly acting as increased movability of the embryo (Refs 1 and 7). In order to understand the function mechanism of these factors and the role of the nervous system in the process of enzyme secretion, it is important to explain the process of accumulation and secretion of the enzyme outside the organism without a connection between gland and nervous system and without an influence by external factors. For this purpose the spawns of Huso huso (L), of Acipenser guldenstadti colchicus of Marti, and of Acipenser stellatus Pall. were examined. In doing so, an explantation of the hatching gland or its rudiment was carried out. In the first test series the rudiment of the hatching gland was removed in embryos in the stages 25-28 according to Detlaf and Ginzburg (Ref 2), i.e. before the secretion of the enzyme started.

Card 1/2

Secretion of the Hatching Enzyme in Explants of the SOV/20-128-1-57/58 Hatching Gland of Acipenseridae Embryos

In the second test series the hatching gland was removed in the stage 30-33, when the accumulation of the hatching enzyme had started, but not its secretion. The experimental results showed the following: 1) The production of the enzyme may start in the hatching glands separated from the organism, and may become very intense; 2) A partial secretion of the enzyme by the glands independent of the nervous system, into the surrounding medium may occur under such conditions. Consequently this process is not caused, but only stimulated by these factors which, under normal conditions, check the secretion of the enzyme. There are 4 figures and 7 Soviet references.

ASSOCIATION:

Institut morfologii zhivotnykh im. A. N. Severtsova Akademii nauk SSSR (Institute of Morphology of Animals imeni A. N.

Severtsov of the Academy of Sciences, USSR)

PRESENTED:

March 26, 1959, by I. I. Shmal'gauzen, Academician

SUBMITTED:

March 24, 1959

Card 2/2

IGHAT'YEVA, G.M.

Regional nature of the inductive effect of the chordanesoderm in sturgeon embryos. Dokl.AN SSSR 134 no.1:233-236 S '60.

(MIRA 13:7

1. Institut morfologii zhivotnykh im. A.N. Severtsova Akademii nauk SSSR. Predstavleno akad. I.I. Shmal'gauzenom.
(RHERYOLOGY--PISHES)

IGNAT'YEVA, G.M.

Inductive properties of the chordomesodermal bud before the beginning of invagination and regulation of its defects in sturgeon embryos.

Dokl. AN SSSR 139 no.2:503-505 Jl '61. (MIRA 14.3)

1. Institut morfologii zhivotnykh im. A.N. Severtsova AN SSSR. Predstavleno akademikom I.I. Shmal'gauzenom. (Embryology—Fishes) (Sturgeons)

IGNAT'YEVA, G.M....

Comparison of the dynamics of the invagination process of the chordamesoderm material in the embryos of starred sturgeon, sturgeon and axolotl. Dokl. AN SSSR 151 no.6:1466-1469 Ag '63. (MIRA 16:10)

1. Institut morfologii zhivotnykh im. A.N.Severtsova AN SSSR. Predstavleno akademikom Yu.A.Orlovym.

SHMAL'GAUZEN, Ivan Ivanovich; IGNAT'YEVA, G.M., red.; KOLPAKOVA, Ye.A., red.izd-va; DOROKHINA, I.N., tekhn.red.

[Form control in individual development; a popular scientific essay]Reguliatsiia formoobrazovaniia v individual'nom razvitii; nauchno-populiarnyi ocherk. Moskva, Izdvo "Nauka," 1964. 133 p. (MIRA 17:4)

IGNATIYEVA, G.M., SHUROVENKOV, B.G. Brief news and information. Zool. zhur. 43 no.7:1099-1102 164. (MIRA 17:12)

CIA-RDP86-00513R000518410013-8" APPROVED FOR RELEASE: 04/03/2001

LOPASHO, G.V., red.; NEYFAKH, A.A., red.; STROYEVAYA, O.G., red.; ICNAT'YEVA, G.M., red.

[Cell differentiation and induction mechanisms; reports] Kletochnaia differentsirovka i induktsionnye mekhanizmy; sbornik dokladov. Moskva, Nauka, 1965. 269 p. (MIRA 18:7)

1. Simpozium po kletochnov differentsirovke i induktsionnym mekhanizmam. Moscow, 1963. 2. Institut morfologii zhivotnykh im. A.N.Severtsova AN SSSR, Moskva (for Lopashov).

YEPIFANOVA, Ol'ga Igorevna; PROKOF'YEVA-EEL'GOVSKAYA, A.A., otv. red.; IGNAT'IEVA, G.M., red.

[Hormones and cell reproduction] Germony i rammozhenie kletok. Moskva, Nauka, 1965. 240 p. (MIRA 18:11)

IGNAT'YEVA, G.M.

Interrelationship between the processes of epiboly and invagination during gastrulation in sturgeon embryos. Dokl. AN SSSR 165 no.4:970-973 D '65.

(MIRA 18:12)

TOTAL TOTAL STREET, ST

1. Institut morfologii zhivotnykh im. A.N.Severtsova AN SSSR. Submitted January 20, 1965.

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8

IGNAT YEVA, G.V.

Reactogenicity and immunological effectiveness of the pertussisdiphtheria-totanu vaccine. Thur. mikrobiol., epid. i immin. 40 nc.9:134-135 S163. (NIRA 17:5)

1. 12 Krakovskogo instituta epidemiologii i mikrobiologii.

THE THE PERSON OF THE PERSON O

IGNATIYEVA, G.V.; SUMAROKOV, A.A.; LEDENEVA, A.G.; ALAFUZOVA, S.V.

Immunological effectiveness of pertussis diphtheria-tetanus vaccine. Zhur. mikrobiol., epid. i immun. 40 no.10:58-62 0 '63. (MIRA 17:6)

1. Iz Moskovskogo instituta epidemiologii i mikrobiologii i sanitarno-epidemiologicheskoy stantsii Leningradskogo rayona Moskvy.

SARAYEVA, N.T.; MASTYUKOVA, Yu.N.; IGNAT'YEVA, G.V.; LEDENEVA, A.G.; KHLYABICH, G.N.

Serological analysis of the clinical and epidemiological effectiveness of various reglobulin doses in the prevention of measles. Zhur. mikrobiol., epid. i immun. 42 no.11: 44-48 N '65. (MIRA 18:12)

1. Moskovskiy institut epidemiologii i mikrobiologii. Submitted June 4, 1965.

IGNAT'YEVA, G.V.; SARAYEVA, N.T.; KHROMETSKAYA, T.M.; LIDENEVA, A.G.;

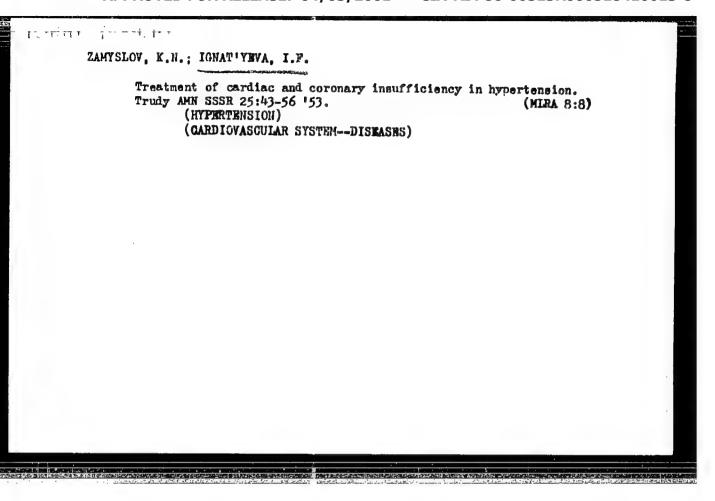
MASTYUKOVA, Yu.N.; NESTEROVA, T.P.; ALAFUZOVA, S.B.; YERSHOVA, A.S.;

BARANOVA, T.V.; BEKLEMESHEVA, Ye.D.; SHIPOVA, Ye.P.; SUKHANGVA, R.V.;

KHLYABICH, G.N.; KHANTSIS, S.S.

Clinical and epidemiological effectiveness of a reduced dose of γ -globulin (1.5 ml) in seroprophylaxis of measles. Zhur.mikrobiol., epid. i immun. 42 no.12:57-61 D '65. (MIRA 19:1)

1. Moskovskiy institut epidemiologii i mikrobiologii; Institut virusologii imeni Ivanovskogo AMN SSSR; Moskovskaya sanitarno-epidemiologicheskaya stantsiya; Rybinskaya sanitarno-epidemiologicheskaya stantsiya; Vladimirskaya sanitarno-epidemiologicheskaya stantsiya i Ob"yedinennaya detskaya poliklinika, Makhachkala.



DOROFEYEVA, Z.Z., kand.med.nauk; IGNAT'YEVA, I.F.

Diagnostic significance of vectocardiography in rheumatic carditis.
Ternp. arkh. 30 no.3:55-65 Mr '58. (MIRA 11:4)

1. Iz Instituta terapii AMN SSSR (dir-deystvitel'nyy chlen AMN SSSR prof. A.L. Myasnikov)

(RHEUMATIC HEART DISEASE, diagnosis,
vectocardiography (Rus)

(YECTOCARDIOGRAPHY, in var. dis.
rheum, heart dis. (Rus)

DOROFNYHVA, Z.Z.; IGNAT YEVA, I.F.

Significance of registration in precordial vectorcardiography according to the topographical principle in the diagnosis of myocardial lesions. Terap.arkh. 31 no.9:62-67 S '59. (MIRA 12:11)

1. Iz Instituta terapii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. A.L. Myasnikov), Moskva.
(VECTORCARDIOGRAPHY)

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8

Ignat'yaw, I. B. "incremain; the double smallty of stock by relective seed dants at the time of each dropping", Doklady (Nork, s.-kh. ekad, in. Thirryspeed), Issue 3 1948, (In index: 1949), p. 74-95.

So: U-11, 17 July 3, (Letopic' Zhurnal 'nykh Statey, No. 26, 1949).

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8

IONAT'INVA. I.P., kand. sel'skokhozyaystvennykh nauk.

Characteristics of the development of the many-leaved lupine [with summary in English]. Izv. TSKhA no.2139-54 '58.(NIRA 11:6) (Inpine)

IGNAT'YEVA, I.P., kand.sel'skokhosyaystvennykh nauk

Developmental characteristics of larkspur [with summary in Rnglish]. Isv. TSKhA no.4:43-55 '60. (NIRA 13:9)

(Larkspur)

IGNAT'YEVA, I.P. Life cycle of Pyrethrum roseum M.B. Biul.Glav.bot.sada no.44:62-76 (MIRA 15:2) 1. Moskovskaya sel'skokhozycystvennaya akademiya imeni Timiryazeva. (Pyrethrum)

| | Some ontogenetic features on o.9:1255-1270 S '61. | of the Oriental poppy. Bot. zhur. 46 (MIRA 14: | 9) |
|---|---|---|-----|
| | 1. Sel'skokhozyaystvennaya akademiya im. K.A.Timiryazeva, Dendrari Moskva. (Poppy) | | iy, |
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| Morphogene 1194-1202 | sis of the Alpine forget-me-not. Bot. zhur. 46 no.8: Ag '61. (MIRA 15 1) |
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| l. Sel [†] sk Moskva. | (Forget-me-nots) (Botany-Morphology) |
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IGNAT'YEVA, I.P.

Some characteristics of the ontogenesis of the Missouri evening primrose. Biul. Glav. bot. sada no.45:87-97 '62. (MIRA 16:2)

IGNAT'YEVA, I.P. Some characteristics of the ontogenesis of Gaillardia grandiflora Hort. Bot. ahur. 47 no.9:1258-1272 S '62. (MIRA 16:5) 1. Dendrologicheskiy sad imeni R.I.Shredera, Moskva. (Gaillardia)

IGNAT'YEVA, I.P.

Morphogenesis of the garden columbine (Aquilegia vulgaris L.). Bot. zhur. 49 no.3:353-371 Mr 164. (MIRA 17:3)

1. Dendrologicheskiy sad imeni R.I. Shredera, Moskva.

IGNAT'YEVA, I.P.

Shoot formation and secondary flowering in taproot and fibrous-root polycarpic herbaceous plants. Bot. zhur. 50 no.1:16-28 Ja '65. (MIRA 18:3)

1. Dendrologicheskiy sad imeni R.I. Shredera, Moskva.

IGNAT YEVA, I.P.

中心的管理解以为自由的一个影響

Life cycle of the taprooted and fibrous-rooted polycarpic herbaceous plants. Bot.zhur. 50 no.7:903-916 J1 165.

(MIRA 18:11)

1. Sel'skokhozyaystvennaya akademiya imeni Timiryazeva, Moskva.

Production of weld carbon dioxide in hydrolysis plants. Gidroliz.
i lesokhim. prom. 14 no.5:13-15 '61. (MIRA 16:7)

1. Leningradskiy gidroliznyy zavod (for Belyayevskiy, Shirokikh).
2. Gosudarstvennyy nauchno-issledovstel'skiy institut gidroliznoy
i sul'fitnospirtovoy promyshlennosti (for Ignat'yeva).

(Carbon dioxide) (Hydrolysis)

9,2181 (2303,3203) 2**4.780**0 (1144,1162)

S/048/60/024/011/019/036 B006/B056

AUTHORS:

Lur'ye, M. S., Vasil'yeva, Ye. I., and Ignat'yeva, I. V.

TITLE:

Ferroelectric Films With Rectangular Hysteresis Loop

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,

Vol. 24, No. 11, pp. 1376 - 1379

TEXT: The present paper is a reproduction of a lecture delivered on the 3rd Conference on Ferroelectricity, which took place in Moscow from January 25 to 30, 1960. The authors give a report on experimental investigations of influencing the rectangularity of the dielectric hysteresis by various factors. In the introduction, the influences exerted by the anisotropy of the unit cell (G. A. Smolenskiy) and the domain orientation and crystallographic structure (Ya. M. Ksendzov) are discussed. In the following, the opinion is expressed that the chemical bonds in the crystal lattice essentially influence the shape of the hysteresis; thus, e.g., it is known that when in the system of the solid solution (Ba.Ph)TiO. Ba²⁺ ions are replaced by Ph²⁺ ions, the

solution (Ba,Pb)TiO, Ba2+ ions are replaced by Pb2+ ions, the

Card 1/4

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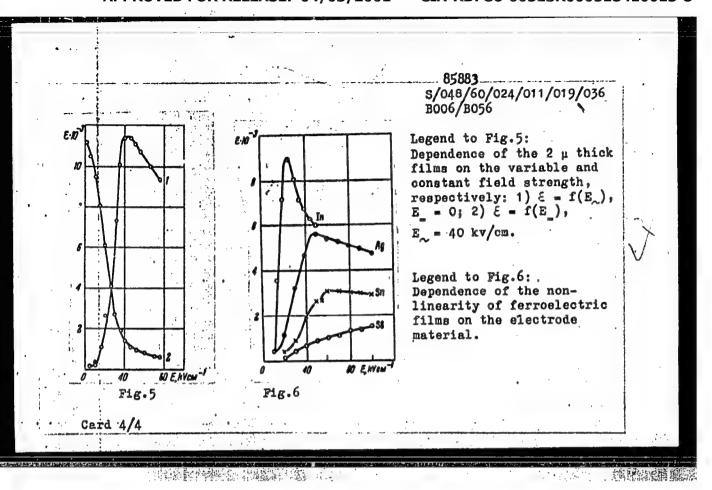
Ferroelectric Films With Rectangular Hysteresis Loop

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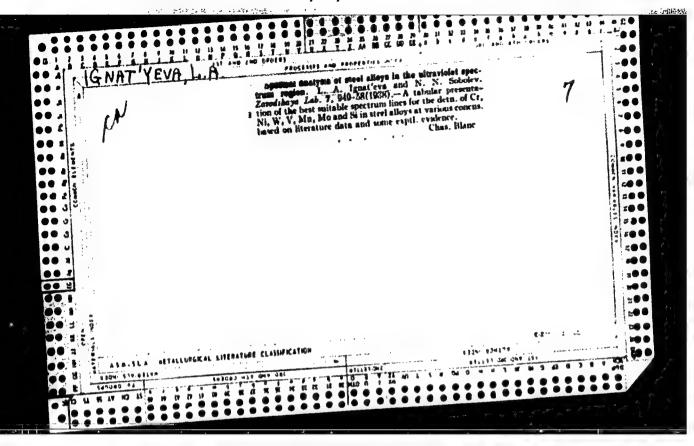
homeopolarity increases and also the rectangularity of the hysteresis, although the anisotropy of the unit cell increases (Smolenskiy had assumed that an improvement of rectangularity is due to a decrease of anisotropy). The authors investigated solid solutions of the system Pb(Ti,Zr,Sn)O, in form of thin disks, to which silver electrodes were fitted. Fig.1 shows $\xi(E_{\sim})$ for some of the investigated compositions. It was found that the nonlinearity of the samples increases with increasing PbTiO, content, and has a maximum near the morphotropic transition from the rhombohedric into the tetragonal phase (near 45% PbTiO,). As may be seen from Fig.2, the rectangularity increases with increasing PbTiO, content. As shown in Fig.3, the parameters remain unchanged within a wide temperature range. From the compositions given in the Table, the authors produced 2 μ thick pylycrystalline films on platinum foils or on platinum-plated ceramics, which they investigated. Fig.4 shows the hysteresis loops for films with Pt - Ag-electrodes and for films with Pt - In electrodes. Fig.5 shows $\xi(E)$, as in the usual samples recorded at 50 cps, and Fig.6 shows the dependence of the nonlinearity of the

Card 2/4

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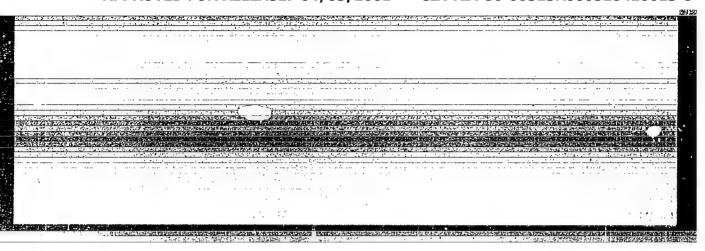


"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518410013-8



| **Resistance of Metals at High Current Density in a Fulse System," L. A. Ignat'yeve, and S. G. Ealsahnikov **Thur Eksper i Feoret Fir" vol XXII, No 4, pp 385-399 **Rect resistance of thin wires of gold, silver, copper, platinum and tungsten was studied for current pulses of duration of the order of tens of vicroseconds and for current densities up to 5.10° A/sq cm, depending on energy introduced into the wires. It was found that in the case of gold, silver and copper the resistance coincides with that down to low currents. In case of platinum and tungsten for current densities over 1:106//sq cm the resistance increases rapidly. The rise increases with a lowering of temp. Indabted to M. M. Sobolev and N. A. Pakar. Received 20 Jul 51. |
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"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000518410013-8

JENHTHEVH, L.H

USSR/Chemistry of Colloids - Dispersed Systems.

B-14

Abs Jour

: Referat Zhur - Khimiya, No 6, 1957, 18794

Author

: I.F. Karpova, L.A. Ignat'yeva.

Inst

: Leningrad University.

Title

: Structural and Comotic Properties of Collodion and

Precipitation Membranes of Copper Ferricyanide.

Orig Pub

: Vestn. Leningr. un-ta, 1956, No 16, 105-109

Abstract

: The esmotic pressure of the 0.4% saccharose solution on collection membranes (average pore radius 1 to 10 mm) and production membranes produced of Cu₂/Fe(CN)₆/ impregnated into the collection film (average pore radius 1 to 10 mm) was measured. It was shown that for esmotic pressure measurements, the average pore radius of collection membranes should not exceed 1 mm, and that of precipitation membranes should not exceed 4.1 mm.

Card 1/1

- 342 -

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BABUSHKIN, A.A.; UVAROV, A.V.; IGNATITAVA, L.A.

Infrared spectroscopic analysis of the adsorption and surface reactions of ethyl and methyl alcohols on aluminum oxide. Fir. sbor. no.3:161-167 *57. (MIRA 11:8)

1. Moskovskiy ordena Ienina i ordena Trudovogo Krasnogo Znameni gosudarstvennyy universitet im. M.V. Lomonosova i Institut fisicheskoy khimii AN 2652. (Ethanol-Spectra) (Methanol-Spectra) (Aluminum oxide)

8/055/59/000/06/13/027 8006/8005

24.2410 5.3700(B) AUTHORE:

Ignat'yeva, L. A., Bazhulin, P. A., Bayeva, I. K.

TITLE:

The Integral Intensities of Infrared Absorption Bands in the

Series of (CH3) siCl4-n Compounds 4

PERIODICAL:

Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki,

astronomii, fiziki, khimii, 1959, No. 6, pp. 127 - 130

TEXT: This article reproduces a report delivered at the Conference on Chemistry and Use of Organosilicon Compounds in September 1958. The results of infrared absorption spectrum investigations are listed in a table, and subsequently described in detail. To exclude intermolecular interactions, the spectra of the gaseous compounds were recorded at low pressures. The spectra were registered by means of a split-beam infrared spectrometer of the type IKS-2 in the range of

from 4,000 to 530 cm⁻¹. A bismuth bolometer with a sensitivity of 25 v/w was used as a radiation receiver. To avoid distortions of the band form, recording was carried out at small velocities. The samples were placed in glass cuvettes, 45 and 100 mm long, with a KCl window. Vapor pressure was measured by a mercury

Card 1/3

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69787

The Integral Intensities of Infrared Absorption Bands S/055/59/000/06/13/027 in the Series of (CH₃)_nSiCl_{4-n} Compounds B006/B005

manometer. The experiments were carried out at pressures of 4 and torr (i.e. 1-10% of the saturation pressure). Cuvettes evacuated to 5.10⁻³ torr were introduced for compensation into the second channel of the spectrometer. The

integral absorption coefficient $A = \int_{-\infty}^{+\infty} \alpha_y dy$, where α_y is the absorption coef-

ficient referring to unit length and pressure, was used as a measure for the integral absorption intensity. It was possible to measure the pressure with an accuracy of 10-15%. Without corrections, the total error of intensity measurement was 20-25%. Results (v in cm⁻¹):

Card 2/3

The Integral Intensities of Infrared Absorption Bands S/055/59/000/06/13/027 in the Series of (CH₃)_nSiCl_{4-n} Compounds S/055/59/000/06/13/027

| Substance | | | | <u> </u> | | | Ono: | (1144) | am A . | | | | |
|--------------------------------------|---|-----------|-----------------------|------------|--|------------|------------------------------------|--------|------------|-------------------------|------|-------------------------------|--|
| - | symmetr. valency- CH ₃ | | asymmetr. valency- | | symmetr. deforma- tion-CH ₃ | | Oscillation symmetr. valency- Si-C | | val | asymmetr. valency- si-C | | asymmetr. valency- si-c | |
| (CH)0403 | <u> </u> | A | V | ~A . | V | A | y | A | V | | - 11 | | |
| (CH ₃)281C1 ₃ | | 48 100 | 2985 2980 | 103.* | 1266 | 310 | 764 | 490 | - | - | 575 | 458 | |
| (CH ₃) ₃ SiCl | 2905 | 145 | 2975 | 170 280 | 1264 | 370 | 691 | 220 | 804 | 407 | 538 | 258 | |
| (CH ₃)4s1 | 2900 | 210 | 2970 | 360 | 1261 1259 | 415 500 | 631 | 105 | 761 690 | 239 225 | - | - | |

M. I. Batuyev, A. D. Petrov, V. A. Ponomarenko, and A. D. Matveyeva are mentioned.

ASSOCIATION: Kafedra optiki (Chair of Optics)

SUBMITTED: April 23, 1959

. Card 3/3

24(7), 24(2)

AUTHOR: Ignatiova, L.A. SOV/51-6-6-19/34

TITLE

Study of d- and p-spodumenes by Means of Infrared Spectroscopy (Izucheniye ti- i p-spodumenov metodom infrakrasnoy spektroskopii)

ABSTRACT:

PERIODICAL: Optika i spektroskopiya, 1959, Vol 6, Nr 6, pp 807-810 (USSR). of-spodumene is a natural mineral LiAl Si20s containing ~65% of Si02, *27% of Algor, 197% of Ligo and certain impurities. Heating of a-spedumene to temperatures of the order of 1000°C transforms it into A-spodumene. The transition is endothermic and it is accompanied by large changes in volume and other physical constants (specific gravity, refractive index, interplanar distance in Debye X-ray patterns, see the table on p 807). All these effects suggest that important changes occur in the crystal lattice on dof transition. The structure of despodumene is similar to that of clino-enstatite with two atoms of Mg replaced by Al and Li surrounded by six atoms of oxygen (coordination number of Al equal to 6). The structure of \$\rho_spodumene is not known. It was suggested that it is similar to that of silicates with aluminium at tetrahedral sites surrounded by four oxygen atoms (coordination number of Al equal to 4). In order to check this suggestion the author obtained infrared spectra of both appdumene modifications. These spectra were measured using a two-beam infrared spectrometer IKS-2 in the region from 550 to 3000 cm-1. In order to study the changes on transition from

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Study of - and -Spodumenes by Means of Infrared Spectroscopy

Aspodumene to \$\textit{\textit{S}\$-spodumene samples}\$ which underwent various heat treatments were used. Fig 1 shows the transmission spectra of spodumenes heated to various temperatures (curves I-IV) and that of despodumene which did not undergo any heat treatment (curve \$\textit{\textit{c}}\$). These spectra show that the transition occurs near 900°C. Comparison of the spodumene spectra of Fig 1 with the spectra of mine:21s containing \$\text{Al}\$ surrounded by six oxygen atoms (topaz, beryl and kyanite, shown in the lower part of Fig 2) and by four oxygen atoms (analcite, milarite and sodalite, shown in the upper part of Fig 2) proves that the suggestion made above is correct, i.e. in despodumene each \$\text{Al}\$ atom is surrounded by six oxygens and in \$\text{\$\text{\$\text{\$C}\$}\$}\$ spodumene each such atom is surrounded by four oxygens. There are 2 figures, 1 table and 8 references, 4 of which are Soviet, 3 German and 1 English.

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77102 SOV/70-4-6-3/31

AUTHORS:

Kolontsova, Ye. V., Ignat'yeva, L. A.

TITLE:

Diffuse Scattering of X-Rays by Quartz Crystals Before

and After the Exposure to Neutron Radiation

PERIODICAL:

Kristallografiya, 1959, Vol 4, Nr 6, pp 821-825 (USSR)

ABSTRACT:

The X-ray diffraction photographs of quartz crystals were taken by Mo radiation, monochromatized reflecting from a slightly bent topaz crystal which proved to be better than pentaerythrite. The intensity of the X-ray beam was controlled taking photographs of a standard polycrystalline specimen parallel with those of the quartz under test. The intensities of diffuse maxima were measured photometrically, reciprocal lattice coordinates computed according to formulas derived by Yu. A. Bagaryatskiy, contour lines of equal diffusion drawn on reciprocal lattice projections, and the intensity changes in certain directions represented graphically. The latter disclosed that the exposure of both natural and artificial quartz crystals to neutron radiation, up to 1010 neutrons per cm², does

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Diffuse Scattering of X-Rays by Quartz Crystals Before and After the Exposure to Neutron Radiation 77102 SOV/70-4-6-3/31

not alter the pattern and intensity of diffuse scattering to an extent greater than possible experimental errors. The exposure to neutron radiation of 10¹⁹ neutrons per cm² intensity increased the intensity of diffusion by 50%, but did not change the forms and positions of diffraction maxima (see Fig. 4).

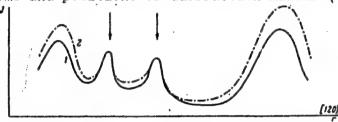


Fig. 4. Intensity distribution of diffracted X-rays along 1207. (1) before; and (2) after the exposure of quartz crystals to neutron radiation of 1019 neutrons per cm2 intensity. Arrows point to the diffuse maxima of a standard specimen.

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Diffuse Scattering of X-Rays by Quartz Crystals Before and After the Exposure to Neutron Radiation

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This seems to indicate that exposure to neutron radiation does not alter the irregular nature of defect distribution but only the number of defects. After six months relaxation of the exposed crystals, the intensity increase of diffusion dropped from 50 to 20%. This obviously points to the decreased number of defects after relaxation. The quartz crystals, exposed to neutron radiation and etched by HF for 15 minutes, were studied under an electron microscope at 200-8,000 X enlargements. The tests failed to show any relationship between etch pits and dislocations. The etch pits on artificial crystals were smaller and sharper than on natural crystals. The crystals exposed to neutron radiation showed waved etch figures. L. I. Tsinober is acknowledged for the specimens made available and T. T. Filippova for electron-microscope studies. There are 4 figures; and 17 references, 9 Soviet, 6 U.K., 1 U.S., 1 French. 5 most recent U.K. and U.S. references are: P. Clemens, Philos. Mag., 1, 10, 938 (1956); K. Huang, Proc. Roy.

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Diffuse Scattering of X-Rays by Quartz Crystals Before and After the Exposure to Neutron Radiation

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Soc., A, 190, 1020, 102 (1957); M. Wittels, Philos. Mag., 2, 24, 1445 (1957); M. Wittels, F. Sherrill, Phys. Rev., 93, 5, 1117 (1954); M. Born, Proc. Roy. Soc., A, 180, 983, 397 (1942).

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Moscow State University imeni M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet imeni

M. V. Lomonosova)

SUBMITTED:

February 7, 1959

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S/153/60/003/004/015/040/XX B020/B054

AUTHORS:

Fioshin, M. Ya., Khazova, O. A., Ignat'yeva, L. A.

TITLE:

Study of the Anode Process in the Electrolysis of Mixtures of Sulfuric and Acetic Acid. II. Effect of the Solution Composition on the Ratio of Components in the Mixture of

Anode Gases

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1960, Vol. 3, No. 4,

pp. 637 - 641

TEXT: The authors attempted to study the composition of gases liberated from the anode in the electrolysis of an anhydrous mixture of sulfuric and acetic acid, and their dependence on the composition of the solution. The gases liberated from the anode were analyzed by a BTM-2 (VTI-2) gas analyzer. The analytical method was based on a successive and selective absorption of the principal components of the gas mixture by various absorbents, and on a combustion of hot gases with subsequent analysis of the combustion products. The authors determined CO₂ by 33% KOH, the

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Study of the Anode Process in the S/153/60/003/004/015/040/XX Electrolysis of Mixtures of Sulfuric and B020/B054 Acetic Acid. II. Effect of the Solution Composition on the Ratio of Components in the Mixture of Anode Gases

unsaturated hydrocarbons by a KBr solution saturated with bromine vapors, O₂ by a basic pyrogallol solution, CO by a Cu₂O suspension in concentrated H₂SO₄ absorbed with β-naphthol, H₂ by combustion over CuO at 270-280°C, and the saturated hydrocarbons by combustion over CuO at 850-950°C. Sulfuric and acetic acid must be highly pure, and not contain any water. Electrolysis was conducted in a cylindrical glass vessel with a ground-in glass stopper, with fused-in electrodes, and a tube to draw off the gas. The anode used was a smooth platinum net with a surface of 63.5 cm². The anode space was separated from the cathode space by a ceramic diaphragm. The current source used was a storage battery with a voltage of 80 v. Electrolysis was conducted in an anhydrous H₂SO₄ - CH₂COOH mixture in an interval of 20-80 mole% of H₂SO₄. Ten different compositions (20, 25, 30, 33, 35, 45, 50, 55, 60, and 80% H₂SO₄) were analyzed. For each composition, the gas analysis was conducted at three current densities: 2.78·10⁻⁴, 5.5·10⁻⁴, and Card 2/4

Study of the Anode Process in the S/153/60/003/004/015/040/XX Electrolysis of Mixtures of Sulfuric and B020/B054 Acetic Acid. II. Effect of the Solution Composition on the Ratio of Components in the Mixture of Anode Gases 1.58·10⁻³ a/cm², which corresponded to the lower, central, and upper part of the curve $\varphi_a = f(\log I_a)$. The change in the ethane- (Fig.1), carbon dioxide- (Fig.2), and oxygen content (Fig.3) in dependence on the solution composition was observed. The Kolbe synthesis proceeded in a mixture containing up to 50 mole% of H2804 at current densities of from 2.78·10⁻⁴ to 1.58·10⁻³ a/cm². Besides the Kolbe synthesis, an intensive oxidation of acetic acid to CO₂ and water is likely to proceed on the anode. At concentrations higher than 50 mole% of H2SO4, this reaction proceeds jointly with the release of oxygen. The formation of solvates influences the composition of anode gases. In the diagram $C_{O_2} = f(C_{H_2SO_4})$, the points of solvate formation correspond to the maximum, in the diagram $C_{CO_2} = f(C_{H_2SO_4})$ to the minimum. N. I. Dedusenko (Ref.5) is mentioned. There are 3 figures and 10 references: 3 Soviet, Card 3/4

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Study of the Anode Process in the S/153/60/003/004/015/040/XX B020/B054 Electrolysis of Mixtures of Sulfuric and Acetic Acid. II. Effect of the Solution Composition on the Ratio of Components in the Mixture of Anode Gases

3 British, 3 German, and 1 Swiss.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut im.

D. I. Mendeleyeva, kafedra tekhnologii elektrokhimiche-skikh proizvodstv (Moscow Institute of Chemical Technology imeni D. I. Mendeleyev, Department for the Technology of the

Electrochemical Industry)

SUBMITTED: October 20, 1958

Card 4/4

Study of of and A-spodumenes by means of infrared spectroscopy. Zhur.fis.khim. 34 no.912092-2090 S 160. (MIRA 13:9

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. (Spodumene--Spectra)

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S/661/61/000/006/062/031 D243/D302

AUTHORS: Ignat'yeva, L. A., Bazhulin, P. A. and Bayeva, I. K.

TITLE: The intensities of the infrared absorption bands of silico-organic compounds of the series (CH₃)_nSiCl_{4-n}

SOURCE: Khimiya i prakticheskoye primeneniye kremneorganicheskikh soyedineniy; trudy konferentsii, no. 6: Doklady, diskussii, resheniye. II Vses. konfer. po khimii i prakt. prim. kremneorg. soyed., Len. 1958. Leningrad Izd-vo AN SESR, 1961, 277-282

TEXT: The authors studied the integral intensities of the infrared absorption bands of the above compounds, where n = 1,2,3,4, and follow the change of intensity and frequency of the absorption bands for separate bonds in the molecule when Cl's were substituted by CH₃ groups. All investigations were carried out in the vapor phase at low pressures to exclude intermolecular reactions. The spectra were recorded with a two-ray NKC-2(IKS-2) infrared spectrometer

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in the region 4000 to 530 cm $^{-1}$, a bismuth bolometer acting as radiation receiver and the spectra being recorded at low speeds to avoid distortion. The experiments were carried out at 4 mm and 10 mm pressures. The average error in measuring the integral intensity was 20 - 25%. A. L. Smith's interpretation of the I-R absorption bands was accepted but the 761 cm $^{-1}$ frequency band was taken as the valence asymmetric oscillation of Si-C in $(CH_3)_3$ SiCl. The results

are given in tabulated form and show the characteristic changes which occur. It is suggested that the rise in intensity of the Si-C oscillation may be due to the large difference in electronegativity between the Si atoms (1.8) and the Cl atoms (3.0), which increases the dipole moment of the Si-C bond. Reference is made to the work of M. I. Batuyev, A. D. Petrov, V. A. Ponomarenko and A. D. Matveyeva in this connection. Also, with a high number of chlorine atoms in the molecule, changes in dipole moment of the Pi-Cl bonds may have an induction effect on the Si-C bonds, and cause the oscillation intensity of the latter to rise. There are 1 table and 4 references: 1 Soviet-bloc and 3 non-Soviet-bloc. The references to

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the English-1 nguage publications read as follows: T. Shimanouchi, I. Tsuchiya and Y. Mikawa, J. Chem. Phys., 18, 1306, (1950); I. Duchesne, J. Chem. Phys., 16, 1006, (1948).

ASSOCIATION: Moskovskiy gosudarstvenny universitet im. L. V. Lomonosov)

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